

## ABSTRACT

Microwave oven including a main cabinet having a plurality of air inlet openings and a plurality of air outlet openings, for accommodating and protecting various components, an inner case provided in an upper space of the main cabinet to form a cooking chamber therein, the inner case having a plurality of inlet holes and outlet holes, an outfit chamber in a rear part of a lower space of the main cabinet for fitting electronic components therein, an inverter part in a front part of a lower space of the main cabinet, a magnetron part in a side space of the main cabinet, partition plates for separating a space for the inverter part, a space of the outfit chamber, and a space for the magnetron, respectively, and a single fan device in a part in contact with the spaces in common for circulating external air to the spaces in the main cabinet, thereby cooling the outfit chamber and the magnetron as well as preventing moisture in a cavity by using only one cooling fan and a fan motor.